

Building Education Conference Courses and Instructors

This conference is presented for Design Professionals, Building Code Officials, Fire Officials, Residential Builders, Commercial Contractors, and other professionals interested in learning about building codes and other related topics.

April 6, 2009

FUNDAMENTALS of the INTERNATIONAL FIRE CODE

Tim Burgett, Instructor and Code Analyst, ICC

The purpose of this seminar is to familiarize and assist building and fire code officials in locating, describing, and applying applicable code requirements of the International Fire Code to determine compliance or noncompliance. This course is a must for those fire and building jurisdictions in the state that have or will be transitioning from the UFC to the IFC. **(full day)**

ENGINEERING FOR BUILDING INSPECTORS - UNDERSTANDING LOAD PATHS AND MORE

Gary C. Grassell, PE, Structural Engineer

This seminar will cover the basic principles of load transfer from point of origin to final position of resistance as mandated by the International Building Code section 1604.4. Load types discussed will incorporate the most common governing forces such as gravity loading (dead loads, live loads and snow loads) and lateral loading (wind loads, seismic loads and soil pressures). There will be a review of several framing systems, typical field conditions and allow for general round table discussion in latter part of the day. **(all day)**

COMMERCIAL KITCHENS – GETTING CODE COMPLIANT DESIGNS AND INSTALLATIONS THE FIRST TIME – Dave Micone, State Plumbing Inspector, Pat Clinch, Deputy State Fire Marshall, and Lynn Perkins, Fire Suppression Services

This half day seminar will provide current code information to designers, contractors, plumbers and mechanical equipment contractors on those plumbing aspects found in the 2006 Uniform Plumbing Code for the layout, design, and installation of a variety of commercial kitchen applications. Topics will include specific plumbing code requirements for floor drains, triple bowl sinks, other fixtures and equipment, Fats-Oil-Grease Interceptor requirements, and gas piping. Mechanical topics will focus on Type I and II hood code requirements, exhaust systems, terminations, and make-up air requirements. There will be additional discussion on fire suppression and rooftop equipment. **(am only)**

CONSTRUCTION SAFETY - “INVESTING IN YOUR PEOPLE and BOTTOM LINE”

Kirk Smith, MT OCC Safety & Health Bureau

This half day seminar will provide builders, design professionals, and building officials an insight to the costs and effects when construction safety is not a part of your operations. The basics of job site safety will be discussed to include excavation and trenching, fall protection, ladders and scaffolding, framing safety, trips and falls, and job site electrical safety. **(pm only)**

CONCRETE TECHNOLOGIES, WEATHER, APPLICATIONS, AND ADDITIVES

Bob Glasgow - Concrete Division Montana Contractors Association, Knife River

Basil Jacobson - United Materials Of Great Falls, Steve Morrice - Holcim Cement, Dave Burg - Ash Grove

A four hour seminar aimed at providing designers, builders, and code enforcement officials information on concrete technologies, cold and hot weather applications, design mixes, additives for various conditions and other principles and practices in concrete materials and technologies. **(AM & Repeat in PM)**

LEGAL ASPECTS OF BUILDING CONTRACTING

Carl Schweitzer - Executive Director of the Montana Subcontractors Association

This half day, two part, seminar will answer the basic questions about “Notices of Right to Claim a Lien and Construction Liens, and Montana Construction Statutes. Areas of discussion will include time lines and dead lines for notices and liens, forms and information needed to complete the forms, when a notice is needed, where to locate the information to fill out a notice or lien, where and to whom notices and liens are sent. Lien releases - don’t release more money than the money you collect, and the importance of notices of right to claim a lien and why they will help you get paid. In addition the seminar goes through the various sections of Montana Construction Payment Act. Detailing the time lines for owners to pay general contractors, general contractors to pay subcontractors, and subs to pay second tier subs. The act also has limitations on retainage, prohibition of certain clauses and interest penalties for late payment. **(am only)**

CONTINUING WITH OUR
COMMITMENT TO
EDUCATION....

JOIN US FOR OUR

FOURTH ANNUAL

**BUILDING CODES
EDUCATION CONFERENCE**

APRIL 6 - 9, 2009

ON-LINE REGISTRATION AT
<http://www.mt.gov/dli/bsd/bc/ed.asp>



MONTANA CHAPTER

MT Dept. Of Labor and Industry
Building Codes Bureau
PO Box 200517
Helena, MT 59620-0517



APRIL 6, 2009

FIRE SPRINKLER OVERVIEW

David Hughes Jr. P.E., Jason Anderson, P.E., Mark Gauveia, P.E., Sprinkler Technology Design

This seminar provides an overview of the Rules and Laws Governing Fire Sprinkler Design and Engineering in Montana. Highlights include: residential sprinkler design and installation standards for NFPA #13, #13R, and #13D. The implications of the 2009 IRC sprinkler provisions, and basic water supply, fire pumps and storage tanks. **(pm only)**

April 7, 2009

INTERNATIONAL FIRE CODE PLAN REVIEW

Tim Burgett Instructor and Code Analyst, ICC

***** THIS IS A TWO DAY CLASS TO BE OFFERED APRIL 7 - 8, 2009 *****

This course addresses numerous provisions in the 2006 *International Fire Code* where the fire code contains requirements applicable to construction, design, operations, storage, use and handling that occur in an occupancy, but that are not regulated specifically by the *International Building Code*. The course is intended to help building and fire code officials responsible for plan review, and identify those areas where plan review will include compliance with the IFC. **(all day - Tuesday & Wednesday)**

FIRE RESISTIVE CONSTRUCTION - CHAPTER 7 IBC

Doug Thornburg, AIA, CBO Director Of Product Development, ICC

This seminar addresses the critical concepts of the 2006 International Building Code (IBC) regarding Chapter 7 fire - resistance - rated construction. The focus of the seminar will be the materials and assemblies used for Structural fire - resistance - rated construction including exterior walls, separation of adjacent spaces both vertical and horizontal, shafts, penetrations and openings. The content discusses issues that are the basis for many designs and plan review decisions. **(all day)**

LEGAL ASPECTS OF CODE ADMINISTRATION

Stephen Thomas, President Colorado Code Consulting

The first part of this course provides individuals with guidelines for administering the legal aspects of code enforcement, prosecution and maintenance. Topics will include historical results of ignoring regulations, interpretation and application of pertinent laws and theories of legal liability. The second part will discuss ethics, with a discussion of "real world" issues that affect the perception and performance of the code enforcement staff. **(all day)**

APRIL 8, 2009

BRACED WALLS / SEISMIC ANCHORING

Dr. J. Daniel Dolan, P.E. Washington State University CEE Department

This lecture will cover the bracing section of the International Residential Code (IRC) and the Special Design Provisions for Wind and Seismic Design for the National Design Specification (NDS) for Engineered Wood Construction (referenced by the International Building Code (IBC)). The presentation will include the changes and rationale for how the bracing section of the IRC is organized and how the different parts fit together. This is the new document for prescriptive design of One and Two Family Dwellings. The lecture will cover how the fastening schedules have been changed for each of the different sheathing materials as well as how the different methods should be applied when designing a building. **(AM & Repeat in PM)**

GREEN BUILDING - GETTING FROM CONCEPT TO THE "HOW TO"

***** THIS IS A TWO DAY CLASS TO BE OFFERED APRIL 8 - 9 *****

Ralph Johnson, AIA, Professor -MSU Bozeman, Tom Wood, AIA, Professor -MSU Bozeman, Tom McNab, Adjunct Professor -MSU Bozeman, and Randy Hafer, AIA, High Plains Architects

This two day course will offer architects, engineers, construction professionals, and code officials a detailed review of the concepts involved in green building. Emphasis will be placed on the following design and construction areas: Integrated design process and methods of achieving high performance buildings, energy planning issues, details and construction of high performance buildings, development issues in green building, and efficiencies with respect to resources, water, and energy. The discussion will include ways to maintain code compliance with these new methods and materials and promote green building as a sustainable concept within the design-build-code enforcement community. **(all day Wednesday & Thursday)**

APRIL 8, 2009

COMBINATION INSPECTION OF SMALL COMMERCIAL STRUCTURES

Stephen Thomas, President Colorado Code Consulting

This class provides commercial inspectors with basic techniques and an understanding of conducting inspections of small commercial buildings. The discussion will include preparation, presentation and inspections of the building, plumbing, mechanical and electrical portions of a building. **(all day)**

POST INSTALLED ANCHORING

Nicholas Laing, Regional Field Engineer For Hilti

This seminar provides an overview of ICC Acceptance Criteria for mechanical and adhesive anchors including Testing Criteria and ACI 318 App D / AC 308 design procedures per the 2006 IBC. Topics include: ICC Evaluation Reports - what they mean and how to read them. Code compliant anchors for all seismic design categories. Temperature affects and creep behavior of adhesive anchors, also defining cracked concrete and anchoring to it. **(AM & Repeat in PM)**

APRIL 9, 2009

ALTERNATIVE FIRE-RESISTANCE DESIGN

Bob Eugene, Senior Staff Engineer, Underwriters Laboratory

This seminar will assist the student with understanding the potential pitfalls of alternative fire-resistance designs and engineering judgements. It will assist in making rational decisions for alternatives that may be considered. The course utilizes information from fire test standards and the UL Guide Information Section of the Fire Resistance Directory to assist the student in understanding various considerations to apply to requested alternatives. The fire ratings pertain to Classifications that are based upon the test method and acceptance criteria in the Standard, Fire Tests of Building Construction and Materials. ANSI/UL 263 (ASTM E119 and NFPA 251) The class will also target penetrations of fire-resistance rated assemblies. **(all day)**

IBC SPECIAL INSPECTIONS

John Gibson Jr., M.C.P., C.B.O., C.P.C.A., C.F.I. Technical Advisor & Instructor For ICC

This class is designed to simplify the basic procedures required of a special inspection program. It presents the special inspection program formation process in a step-by-step fashion. We will discuss the advantages of the program, pitfalls, commonly asked questions, and ways to monitor the progress of a program once it is established. It explains the basic benefits an established special inspections program provides to the design community, building industry, and the building department. **(all day)**

GREEN BUILDING - GETTING FROM CONCEPT TO THE "HOW TO"

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SIMPSON STRONG-TIE COMPANY

Olga Psomostithis, Ryan Edwards, Eric Pugmire, Mike Finzer, Scott Tomamichel and Keith Bohren, P.E.

This workshop is designed for industry professionals such as Engineers, Architects, Building Jurisdictions, Contractors, Builders and others interested in learning about proper connections. It is intended to provide the attendee with an understanding of products and concepts for anchorage into concrete and concrete masonry. We will also have a detailed review of the structural code requirements for building an outdoor wood deck, based on the International Residential Code, International Building Code, and the National Design Specification for Wood Construction guidelines. This will be followed by an overview of Simpson Strong-Tie products, developed to satisfy code requirements and do so at the lowest installed cost. **CEU'S ARE AVAILABLE TO ATTENDEES (all day)**

APRIL 6 - 9, 2009 CONFERENCE CURRICULUM

MONDAY APRIL 6	INTERNATIONAL FIRE CODE FUNDAMENTALS -ALL DAY-	ENGINEERING FOR BUILDING INSPECTORS- UNDERSTANDING LOAD PATHS AND MORE -ALL DAY-	COMMERCIAL KITCHENS AM	CONCRETE AM	LEGAL ASPECTS OF BUILDING CONTRACTING AM
			SAFETY CLASS PM	CONCRETE PM	FIRE SPRINKLER OVERVIEW PM
TUESDAY APRIL 7	INTERNATIONAL FIRE CODE PLAN REVIEW -ALL DAY- <u>DAY 1</u>	FIRE RESISTIVE CONSTRUCTION - CHAPTER 7 IBC -ALL DAY-	LEGAL ASPECTS OF CODE ADMINISTRATION -ALL DAY-		
WEDNESDAY APRIL 8	INTERNATIONAL FIRE CODE PLAN REVIEW -ALL DAY- <u>DAY 2</u>	BRACED WALLS/ SEISMIC ANCHORING AM	GREEN BUILDING - GETTING FROM CONCEPT TO THE "HOW TO" -ALL DAY- <u>DAY 1</u>	COMBINATION INSPECTION OF BUILDING - ALL DAY -	POST INSTALLED ANCHORING AM
		BRACED WALLS / SEISMIC ANCHORING PM			POST INSTALLED ANCHORING PM
THURSDAY APRIL 9	ALTERNATIVE FIRE-RESISTANCE DESIGN -ALL DAY-	IBC - SPECIAL INSPECTIONS - ALL DAY -	GREEN BUILDING - GETTING FROM CONCEPT TO THE "HOW TO" -ALL DAY- <u>DAY 2</u>	SIMPSON STRONG-TIE -ALL DAY-	

Registration and Class Selection

PLEASE COMPLETE A SEPARATE FORM FOR EACH PERSON

ON-LINE REGISTRATION: <http://www.mt.gov/dli/bsd/bc/ed.asp>

Name _____ Company Name _____
Address _____ City, State, Zip _____
Work Number _____ Cell Number _____
E-mail Address _____ Check Amount _____

Class Selection (You may select any class or classes being offered each day)

Monday

- ☐ IFC Fundamentals (full day)
- ☐ Engineering for Building Inspectors - Understanding Load Paths and More (full day)
- ☐ Commercial Kitchens (am)
- ☐ Safety Class (pm)
- ☐ Concrete (am)
- ☐ Concrete (pm)
- ☐ Legal Aspects of Building Contracting (am)
- ☐ Fire Sprinkler Overview (pm)

Thursday

- ☐ Alternative Fire-Resistance Design (full day)
- ☐ IBC Special Inspections (full day)
- ☐ Green Building - The How To Details (full day)
- ☐ Simpson Strong-Tie (full day)

Tuesday

- ☐ IFC Plan Review (full day)
- ☐ Fire Resistive Construction - Chapter 7 IBC (full day)
- ☐ Legal Aspects of Code Administration (full day)

Wednesday

- ☐ IFC Plan Review (full day)
- ☐ Braced Walls/Seismic Anchoring (am and pm)
- ☐ Green Building - The How To Details (full day)
- ☐ Combination Inspection of Building (full day)
- ☐ Post Installed Anchoring (am)
- ☐ Post Installed Anchoring (pm)

PLEASE MARK THE DAY(S) YOU WILL BE ATTENDING LUNCH

- ☐ Monday
- ☐ Tuesday
- ☐ Wednesday
- ☐ Thursday

Registration fee: \$45.00 (required)

Registration fee should be paid to the Montana Chapter of the ICC. Full payment should accompany your registration form. **Registration deadline is Sunday, March 29, 2009.**

Please return your registration / class selection form and fee to:
Montana Chapter of the International Code Council
P.O. Box 244 Helena, MT 59624.

PLEASE COMPLETE THE REGISTRATION

FORM. You must check the classes you wish to attend in order to register. Please complete a **separate form for each person** attending and be sure to **print clearly** all the requested information. Please register as soon as possible as certain classes will be limited in size. Individual classes will be filled on a first come, first served basis.

CEUs: Continuing education units will be offered, with individual certificates. **CEU Credits are self-reporting.**

Rooms can be reserved at the Gran Tree Inn. The rate is \$76.00.

Phone number 406-587-5261. Reservations: Please refer to group number **804429** or **Montana Department of Labor & Industry** when making or inquiring about your reservations. If reservations are made by rooming list, this will act as guarantee.

EXHIBITS: TUESDAY IN THE ATRIUM - This is your opportunity to learn about the latest building and construction products and services offered by trade associations, manufacturers, and related businesses exhibiting at the conference.